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October 5, 1979

Mr. John S. Huefner
Professional Engineer
Kaiser Steel Corporation
Sunnyside, Utah 84539

Re: Kaiser Steel
Sunnyside Mines
Sediment Ponds
ACT/007/007

Dear John:

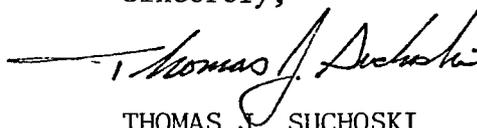
The Division has completed a cursory review of Kaiser Steel's sediment pond design and plans. Before this review can be completed, the following information is required:

- 1) Detailed watershed contour maps delineating the entire drainage area of the ponds for the manshaft area, main complex, Icelander Gully, and below the coarse refuse pile. These maps should show all diversions and culverts within or affecting these drainage areas and a representation of the flow patterns by which water will be conveyed to the ponds.
- 2) Description of sediment disposal plans for the manshaft, main complex, Icelander Gully, and Coarse refuse pile ponds.
- 3) Calculations demonstrating that the spillway designs for the Icelander Gully, manshaft area and coarse refuse ponds are sized to handle runoff from the 25 year-6 hour precipitation event.
- 4) Detention time of 1 hour for the Icelander Gully and coarse refuse ponds is not approvable. The regulations allow for a minimum of 10 hour detention time when the operator demonstrates that mechanical and physical means can achieve the effluent requirements, and lower detention times when chemical treatments are used to meet effluent requirements.
- 5) NPDES permits shall be required for the de-watering facilities of the manshaft, Icelander Gully, and coarse refuse pile ponds.

- 6) Stability analysis of the main complex pond embankment determining the material used in the construction of the embankment and a demonstration that the structure of the pond will withstand the pressures of the 100 year precipitation event plus the sediment storage volume. The area used in this computation should be for the entire drainage area into and above the pond as the diversion structures above the disturbed area will probably fail under the 100 year event.

The Division awaits Kaiser's submittal for this requested information to complete the review. If there are any questions please contact the Division.

Sincerely,



THOMAS J. SUCHOSKI
RECLAMATION HYDROLOGIST

TJS/sp

cc: John Hardaway, O.S.M., Denver